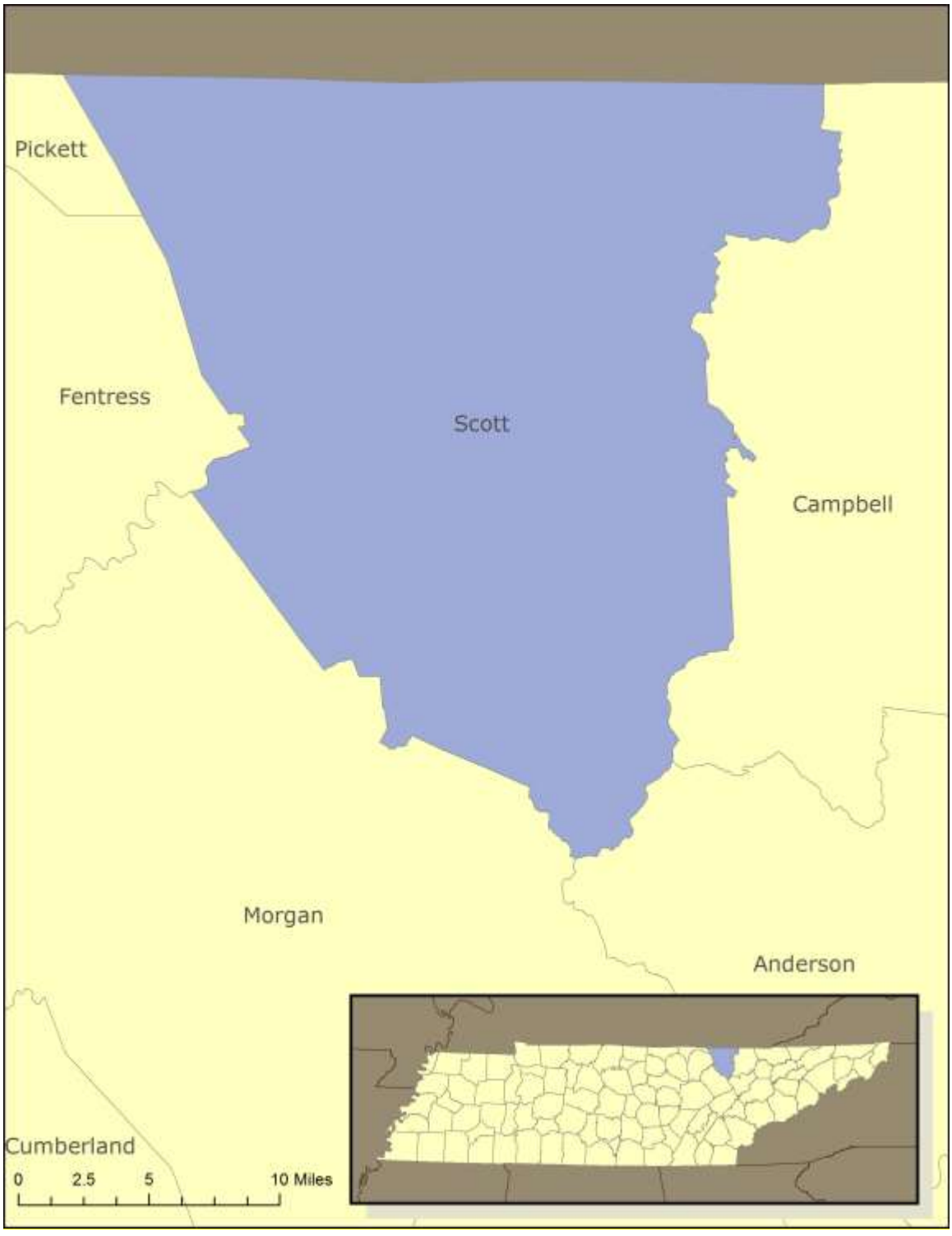
# OIR GIS Services LiDAR/Elevation Project Summary

Project Sponsor: U.S. Department of Interior, Office of Surface Mining and State of Tennessee, Department of Environment and Conservation
Project Area: Scott County, TN
Acquisition Dates: February and March 2014
Technical Summary:

Nominal Point Spacing – 1.0 meter
Vertical Accuracy – $RMSE_Z$ - 12.5cm (suitable for 2 ft contours)
Horizontal Accuracy is +/- 3.8-foot at the 95% confidence level
Vertical Datum: NAVD88, Geoid09, meters
Horizontal Datum: NAD83, (NSRS 2007)
Coordinate System: State Plane TN FIPS 4100, NAD83 (2011), U.S. Survey Feet
Tiling Scheme: 14,000 x 8,000 feet tiles

Products:

- Unclassified all return point cloud in LAS 1.4 format
- Classified all return point cloud in LAS 1.4 format.
- Digital elevation model (DEM) of ground surface (1 meter grid), hydro flattened with 3-D breaklines in Esri GRID format
- 3-D breaklines suitable to support hydro-flattening as an Esri geodatabase.
- Ground (bare earth) MicroStation 3-D graphic *.dgn file will be required that contains LAS class 8 model key points and breaklines
- Intensity Images in GeoTIFF format
- Building Outlines
- FGDC compliant group level metadata


Pickett
Fentress
Scott
Campbell
Morgan
Anderson
Cumberland
0
2.5
5
10 Miles